

Application No: 10/801,349
Amendment dated July 13, 2006
Reply to Office Action Dated April 13, 2006

Attorney Docket No: 3926.076

IN THE CLAIMS:

The following listing of claims replaces any earlier listing:

1-16. (Cancelled)

17. (Currently amended) A headlight for a vehicle, having

- a reflector having a focal point and a center axis,
- a semiconductor light source in the area of the focal point of the reflector, ~~and~~
- a transparent lens, and
- a metal cooling element,

~~wherein the light source is a semiconductor light source which emits infrared radiation,~~
~~and~~

wherein ~~[[a]] the cooling element is provided which is thermally firmly connected to the~~
~~light source both mechanically and thermally,~~ extends from the light source to the lens and is
fixed in the lens by projects projecting into or passing through the lens or passes through it.

18. (Currently amended) ~~[[A]]~~ The headlight according to Claim 17, wherein the cooling element extends along the center axis of the reflector.

19. (Currently amended) ~~[[A]]~~ The headlight according to Claim 17, wherein the cooling element has an element in the form of a rod.

20. (Currently amended) ~~[[A]]~~ The headlight according to Claim 17, wherein the cooling element has one or more essentially flat elements.

21. (Currently amended) ~~[[A]]~~ The headlight according to Claim 20, wherein the one or more flat elements are arranged running radially from the center axis.

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22. (Currently amended) ~~[[A]]~~ The headlight according to Claim 21, wherein two or more radially running flat elements are provided, and are arranged rotationally symmetrically about the center axis.

23. (Currently amended) ~~[[A]]~~ The headlight according to Claim 21, wherein 3, 4 or 5 radially running flat elements are provided and are arranged in the form of a star.

24. (Currently amended) ~~A headlight for a vehicle, having~~
~~- a reflector having a focal point,~~
~~- a light source in the area of the focal point of the reflector, and~~
~~a transparent lens,~~
~~wherein the light source is a semiconductor light source which emits infrared radiation,~~
~~and~~
~~wherein a cooling element is provided which is thermally connected to the light source, extends from the light source to the lens and projects into the lens or passes through it, The headlight according to Claim 17, wherein the cooling element is partially or completely mirrored.~~

25. (Currently amended) ~~[[A]]~~ The headlight according to Claim 17, wherein the cooling element is composed of aluminum, copper, silver, iron, or an alloy using such metals.

26. (Previously presented) A headlight for a vehicle, having
- a reflector having a focal point,
- a light source in the area of the focal point of the reflector, and
- a transparent lens,
wherein the light source is a semiconductor light source which emits infrared radiation,
and
wherein a cooling element is provided which is thermally connected to the light source, extends from the light source to the lens and projects into the lens or passes through it, wherein the cooling element is sealed from the lens by means of an elastic sealing agent.

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27. (Currently amended) [[A]] The headlight according to Claim 17, wherein the cooling element is not the same color as the reflector.

28. (Currently amended) [[A]] The headlight according to Claim 17, wherein the cooling element substantially does not project, ~~or projects only insignificantly,~~ beyond the lens.

29. (Currently amended) ~~A headlight for a vehicle, having~~
~~— a reflector having a focal point,~~
~~— a light source in the area of the focal point of the reflector, and~~
~~— a transparent lens,~~
~~wherein the light source is a semiconductor light source which emits infrared radiation,~~
and
~~wherein a cooling element is provided which is thermally connected to the light source, extends from the light source to the lens and projects into the lens or passes through it~~ The headlight according to Claim 28, ~~wherein the cooling element does not project, or projects only insignificantly, beyond the lens,~~ and wherein a flat heat sink is arranged on the side of the lens which faces away from the light source and is thermally connected to the cooling element.

30. (Currently amended) [[A]] The headlight according to Claim 17, wherein the light source represents an array comprising two or more individual light sources, which is arranged on a mount ~~and whose mount~~ is thermally conductively connected to the cooling element.

31. (Currently amended) [[A]] The headlight according to Claim 20, wherein the two or more flat elements are mechanically connected to the reflector.

32. (Previously presented) A headlight for a vehicle, having
- a reflector having a focal point,
- a light source in the area of the focal point of the reflector, and
- a transparent lens,

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wherein the light source is a semiconductor light source which emits infrared radiation,
and

wherein a cooling element is provided which is thermally connected to the light source,
extends from the light source to the lens and projects into the lens or passes through it, wherein
the power supply for the light source is provided via the cooling element.